SUBJECT and TITLE INDEX

POLYMER ENGINEERING AND SCIENCE
VOLUME 10
1970

A

1. ABS

Quantitative Thermal Analysis of Polyblends, H. E. Bair, *July, p. 247*
Surface Fracture in Injection Molding of Filled Polymers, R. L. Ballman. R. L. Kruse, and W. P. Taggart, *May, p. 154*
Fine Structures and Fracture Processes in Plastic-Rubber Two-Phase Polymer Systems III. Temperature Dependence of Charpy Impact Strength, M. Matsuo, A. Ueda, and Y. Kondo, *September, p. 253*
Fine Structures and Fracture Processes in Plastic-Rubber Two-Phase Polymer Systems IV. Temperature and Strain Rate Dependences of Tensile Properties, Y. Imasawa and M. Matsuo, *September, p. 261*

2. Acetal

Oxidation of Ether Linked Thermoplastics, P. G. Kelleher and B. D. Gesner, *January, p. 38*
Physical Properties of Some Injection Molded Thermoplastics of Various Glass Contents, H. S. Loveless and D. E. McWilliams, *May, p. 139*

3. Activation Energy

Polyvinylchloride Melt Rheology II—The Influence of Molecular Weight on Flow Activation Energy, E. A. Collins and A. P. Metzger, *March, p. 57*
Radiotracer Measurements of Sulphur Diffusion in Rubber, M. Mozisek, *November, p. 383*

B

4. Biocide

Evaluation of Biocides for Treatment of Polyvinyl Chloride Film, A. M. Kaplan, M. Greenberger and T. M. Wendt, *July, p. 241*

5. Biological Stability

Evaluation of Biocides for Treatment of Polyvinyl Chloride Film, A. M. Kaplan, M. Greenberger, and T. M. Wendt, *July, p. 241*

6. Block Copolymer

Flow Behavior of Concentrated Solutions of an SBS Block Copolymer, D. R. Paul, J. E. St. Lawrence, and J. H. Troell, *March, p. 70*
Physical Properties of Block Copolymers of Polydimethyl Siloxane and Polycarbonate, T. L. Magila and D. G. Le Grand, *November, p. 349*

7. Blow Molding

Extrusion Blow Molding of Polyvinyl Chloride Homo- and Copolymers, W. Taylor and L. F. King, *July, p. 204*

8. Boron Filament

Processing of Boron Filament Wound Composites, P. W. Juneau, Jr., V. N. Saffire, D. P. Hug, and D. Golliday, *March, p. 86*
The Viscoelastic Behavior of Boron Fiber-Epoxy Resin Composites, M. Schrager and J. Carey, *November, p. 369*

9. Bottles

Extrusion Blow Molding of Polyvinyl Chloride Homo- and Copolymers, W. Taylor and L. F. King, *July, p. 204*
Processability of High-Density Polyethylene Bottles with Special Reference to Melt Flow Properties, S. Hirata and A. Kishimoto, *July, p. 235*

C

10. Calorimeter

Thermomechanical Studies of Polymer Deformation II. A Thermodynamic Analysis of a Viscoelastic Material in Sinusoidal Deformation, I. J. Duvdevani, J. A. Biesenberger, and C. G. Gogos, *November, p. 320*

11. Capillary Flow

A Method for Determining the Melt Elasticity in Capillary Flow, C. D. Han and M. Charles, *May, p. 148*
Capillary Flow Instability of Ethylene Polymer Melts, L. L. Blyler, Jr. and A. C. Hart, Jr., *July, p. 193*

12. Carbon Arc

Sources of Variability in Laboratory Weathering, R. A. Kinmonth, R. Saxon, and R. M. King, *September, p. 309*

13. Chain Scission

Oxidation of Ether Linked Thermoplastics, P. G. Kelleher and B. D. Gesner, *January, p. 38*

14. Composite

Stress Analysis of Ribbon Reinforced Composites, P. E. Chen and T. B. Lewis, *January, p. 43*
Processing of Boron Filament Wound Composites, P. W. Juneau, Jr., V. N. Saffire, D. P. Hug, and D. Golliday, *March, p. 86*
Elastic Properties of Model Two-Phase Continuous Composites, P. L. White and L. H. Van Vlack, *September, p. 293*
The Viscoelastic Behavior of Boron Fiber-Epoxy Resin Composites, M. Schrager and J. Carey, *November, p. 369*

15. Compression

Compression, Bending, and Shear of Bonded Rubber Blocks, A. N. Gent and E. A. Meinecke, *January, p. 48*

16. Concentration Dependence

Viscosity of Polypropylene Oxide Solutions over the Entire Concentration Range, P. F. Lyons and A. V. Tobolsky, *January, p. 1*
Post Extrusion Heat and Solvent Transfer from Polymeric Film, N. C. Shih and S. Middleman, *January, p. 4*

17. Crosslinking

High Temperature Molding of Pyrrones, C. L. Johnson, E. B. Bagley, and T. L. Tolbert, *November, p. 340*

18. Crystallinity

Polybutylene Properties of a Packaging Material, C. R. Lindegren, *May, p. 163*
Kinetics of Thermally Induced Solid State Polycondensation of Poly (Ethylene Terephthalate), T. M. Chang, *November, p. 364*

D

19. Deflection Temperature

Physical Properties of Some Injection Molded Themoplastics of Various Glass Contents, H. S. Loveless and D. E. McWilliams, *May, p. 139*

20. Deformation

Compression, Bending, and Shear of Bonded Rubber Blocks, A. N. Gent and E. A. Meinecke, *January, p. 48*
Inflation and Compression of Rubber Tubes Between Parallel Plates, J. M. Charrier and A. N. Gent, *November, p. 358*
Physical Properties of Block Copolymers of Polydimethyl Siloxane and Polycarbonate, T. L. Magila and D. G. Le Grand, *November, p. 349*
Thermomechanical Studies of Polymer Deformation II. A Thermodynamic Analysis of a Viscoelastic Material in Sinusoidal Deformation, I. J. Duvdevani, J. A. Biesenberger, and C. G. Gogos, *November, p. 320*

21. Degradation

Cause and Effect in the Weathering of Plastics, M. R. Kamal, *March, p. 108*
Sources of Variability in Laboratory Weathering, R. A. Kinmonth, R. Saxon, and R. M. King, *September, p. 309*

22. Diffusion

Kinetics of Thermally Induced Solid State Polycondensation of Poly(Ethylene Terephthalate), T. M. Chang, *November, p. 364*
Radiotracer Measurements of Sulphur Diffusion in Rubber, M. Mozisek, *November, p. 383*

23. Dissolution

Isothermal Kinetic Studies Using a Thermomechanical Analyzer Part I. Rates of Polymer Swelling and Dissolution, D. Machin and C. E. Rogers, *September, p. 300*

24. Dynamic Properties

Time-Dependent Properties of Versamid Cured Epoxies, A. E. Moehlenpah, A. T. DiBenedetto, and O. Ishai, *May, p. 170*

E

25. Elastic Properties

On the Strength and Stiffness of Planar Reinforced Plastic Resins, G. E. Padawer and N. Beecher, *May, p. 185*
Elastic Properties of Model Two-Phase Continuous Composites, P. L. White and L. H. Van Vlack, *September, p. 293*

26. Elastomer, Silicone

Relationship Between Thermoelasticity and Reinforcement in Elastomers: Silica Filled Silicone Elastomers, A. V. Galanti and L. H. Sperling, *May, p. 177*
Thermal Stability of Networks Containing Siloxane Linkages, M. T. Shaw and A. V. Tobolsky, *July, p. 225*

27. Electron Microscopy

Structure-Property Relationships in Polyacrylate-Poly(Urethane-Urea) Interpenetrating Polymer Networks, M. Matsuo, T. K. Kwei, D. Klempner, and H. L. Frisch, *November, p. 327*

28. Epoxies

Processing of Boron Filament Wound Composites, P. W. Juneau, Jr., V. N. Saffire, D. P. Hug, and D. Golliday, *March, p. 86*
Time-Dependent Properties of Versamid Cured Epoxies, A. E. Moehlenpah, A. T. Di Benedetto, and O. Ishai, *May, p. 170*
The Viscoelastic Behavior of Boron Fiber-Epoxy Resin Composites, M. Schrager and J. Carey, *November, p. 369*

29. Ethylene-Propylene Copolymer

Polymer Solubility Parameters Determined from Measurements in a Single Solvent, W. R. Song and D. W. Brownawell, *July, p. 222*

30. Extruder

Modified Melting Model for Plastifying Extruders, D. R. Hinrichs and L. U. Lilleleht, *September, p. 268*
Mixing and Residence Time Distribution in Melt Screw Extruders, G. Pinto and Z. Tadmor, *September, p. 279*

31. Extrusion

Extrusion Blow Molding of Polyvinyl Chloride Homo- and Copolymers, W. Taylor and L. F. King, *July, p. 204*
A Modified Melting Model for Plastifying Extruders, D. R. Hinrichs and L. U. Lilleleht, *September, p. 268*

F

32. Filament

A New Method for Determining Oven Aging Stability of Polypropylene Monofilament, A. DiBattista, *November, p. 332*

33. Filament Winding

Processing of Boron Filament Wound Composites, P. W. Juneau, Jr., V. N. Saffire, D. P. Hug, and D. Golliday, *March, p. 86*

34. Fillers

Relationship Between Thermoelasticity and Reinforcement in Elastomers: Silica Filled Silicone Elastomers, A. V. Galanti and L. H. Sperling, *May, p. 177*

35. Film

Post Extrusion Heat and Solvent Transfer from Polymeric Film, N. C. Shih and S. Middleman, *January, p. 4*
On the Strength and Stiffness of Planar Reinforced Plastic Resins, G. E. Padawer and N. Beecher, *May, p. 185*
Evaluation of Biocides for Treatment of Polyvinyl Chloride Film, A. M. Kaplan, M. Greenberger, and T. M. Wendt, *July, p. 241*
Thermomechanical Studies of Polymer Deformation II. A Thermodynamic Analysis of a Viscoelastic Material in Sinusoidal Deformation, I. J. Duvdevani, J. A. Biesenberger, and C. G. Gogos, *November, p. 320*

36. Flake

On the Strength and Stiffness of Planar Reinforced Plastic Resins, G. E. Padawer and N. Beecher, *May, p. 185*

37. Flexural Properties

Physical Properties of Some Injection Molded Thermoplastics of Various Glass Contents, H. S. Loveless and D. E. McWilliams, *May, p. 139*
On the Strength and Stiffness of Planar Reinforced Plastic Resins, G. E. Padawer and N. Beecher, *May, p. 185*

38. Flow

Entrance Flows of Polymeric Materials: Pressure Drop and Flow Patterns, R. L. Boles, H. L. Davis, and D. C. Bogue, *January, p. 24*
Flow Behavior of Concentrated Solutions of an SBS Block Copolymer, D. R. Paul, J. E. St. Lawrence, and J. H. Troell, *March, p. 70*
Numerical Simulation of Injection Mold Filling, D. H. Harry and R. G. Parrott, *July, p. 209*
High Temperature Molding of Pyronnes, C. L. Johnson, E. B. Bagley, and T. L. Tolbert, *November, p. 340*

39. Flow Patterns

Entrance Flows of Polymeric Materials: Pressure Drop and Flow Patterns, R. L. Boles, H. L. Davis, and D. C. Bogue, *January, p. 24*

G

40. Gel Sensitivity

Gel Sensitivity of Polybutadiene-Based Rubber Subjected to Thermal Abuse, D. E. James, *May, p. 159*

41. Glass Fiber

Physical Properties of Some Injection Molded Thermoplastics of Various Glass Contents, H. S. Loveless and D. E. McWilliams, *May, p. 139*

H

42. Heat Generation

Numerical Simulation of Injection Mold Filling, D. H. Harry and R. G. Parrott, *July, p. 209*

43. Heat Stability

Oxidation of Ether Linked Thermoplastics, P. G. Kelleher and B. D. Gesner, *January, p. 38*

44. Heat Transfer

Post Extrusion Heat and Solvent Transfer from Polymeric Film, N. C. Shih and S. Middleman, *January, p. 4*
Numerical Simulation of Injection Mold Filling, D. H. Harry and R. G. Parrott, *July, p. 209*

45. High Temperature Molding

High Temperature Molding of Pyronnes, C. L. Johnson, E. B. Bagley and T. L. Tolbert, *November, p. 340*

46. Hydrocarbons

Anomalous Transport of Hydrocarbons in Polystyrene, R. H. Holley, H. B. Hopfenberg, and V. Stannett, *November, p. 376*

I

47. Impact Strength

Physical Properties of Some Injection Molded Thermoplastics of Various Glass Contents, H. S. Loveless and D. E. McWilliams, *May, p. 139*
Fine Structures and Fracture Processes in Plastic-Rubber Two-Phase Polymer Systems III. Temperature Dependence of Charpy Impact Strength, M. Matsuo, A. Ueda, and Y. Kondo, *September, p. 253*

48. Injection Molding

Surface Fracture in Injection Molding of Filled Polymers, R. L. Ballman, R. L. Kruse, and W. P. Taggart, *May, p. 154*
Numerical Simulation of Injection Mold Filling, D. H. Harry and R. G. Parrott, *July, p. 209*

49. Instability

Gel Sensitivity of Polybutadiene-Based Rubber Subjected to Thermal Abuse, D. E. James, *May, p. 159*

Capillary Flow Instability of Ethylene Polymer Melts, L. L. Blyler, Jr., and A. C. Hart, Jr., *July, p. 193*

K

50. Kinetics

Rates of Molecular Vaporization of Organic Plasticizers, L. A. Wall, J. H. Flynn, and S. Straus, *January, p. 19*
Isothermal Kinetic Studies Using a Thermomechanical Analyzer Part I. Rates of Polymer Swelling and Dissolution, D. Machin and C. E. Rogers, *September, p. 300*
Isothermal Kinetic Studies Using a Thermomechanical Analyzer Part II. Rates of Penetration of a Polymer by a Spherical Indenter, D. Machin and C. E. Rogers, *September, p. 305*
Kinetics of Thermally Induced Solid State Polycondensation of Poly(Ethylene Terephthalate), T. M. Chang, *November, p. 364*
Anomalous Transport of Hydrocarbons in Polystyrene, R. H. Holley, H. B. Hopfenberg, and V. Stannett, *November, p. 376*
SPE International Award Paper, A. V. Tobolsky, *November, p. 317*

L

51. Light Stability

Oxidation of Ether Linked Thermoplastics, P. G. Kelleher and B. D. Gesner, *January, p. 38*

52. Liquid Resin Molding

Survey of a New Concept—Liquid Resin Molding, H. L. Uglione, Jr., *November, p. 345*

M

53. Mechanical Properties

Temperature Dependence of the Properties of Low-Density Polyethylene, D. W. Verser and B. Maxwell, *March, p. 122*
Dynamic Mechanical Properties of Poly (2, 6-Dimethyl-1, 4 Phenylene Ether)-Polystyrene Blends, J. Stoelting, F. E. Karasz, and W. J. MacKnight, *May, p. 133*
Physical Properties of Some Injection Molded Thermoplastics of Various Glass Contents, H. S. Loveless and D. E. McWilliams, *May, p. 139*
Polybutylene Properties of a Packaging Material, C. R. Lindegren, *May, p. 163*
On the Strength and Stiffness of Planar Reinforced Plastic Resins, G. E. Padawer and N. Beecher, *May, p. 185*
Dynamic Melt Properties of Polymer Blends, A. S. Hill and B. Maxwell, *September, p. 289*
Physical Properties of Block Copolymers of Polydimethyl Siloxane and Polycarbonate, T. L. Magila and D. G. Le Grand, *November, p. 349*

54. Melt Elasticity

The Rheology of Polypropylene—The Influence of Molecular Weight Distribution on Melt Elasticity, G. Petraglia and A. Coen, *March, p. 79*
A Method for Determining the Melt Elasticity in Capillary Flow, C. D. Han and M. Charles, *May, p. 148*

55. Melt Flow

Polyvinylchloride Melt Rheology II—The Influence of Molecular Weight on Flow Activation Energy, E. A. Collins and A. P. Metgzer, *March, p. 57*
Effect of Processing History on Melt Flow Defects, A. Rudin, *March, p. 94*
Processability of High-Density Polyethylene Bottles with Special Reference to Melt Flow Properties, S. Hirata and A. Kishimoto, *July, p. 235*
A Modified Melting Model for Plastifying Extruders, D. R. Hinrichs and L. U. Lilleleht, *September, p. 268*

56. Melt Rheology

Dynamic Melt Properties of Polymer Blends, A. S. Hill and B. Maxwell, *September, p. 289*

57. Metal Foams

Elastic Properties of Model Two-Phase Continuous Composites, P. L. White and L. H. Van Vlack, *September, p. 293*

58. Molecular Weight

Polyvinylchloride Melt Rheology II—The Influence of Molecular Weight on Flow Activation Energy, E. A. Collins and A. P. Metzger, *March, p. 57*
Capillary Flow Instability of Ethylene Polymer Melts, L. L. Blyler, Jr., and A.C. Hart, Jr., *July, p. 193*
Torque Rheometer Evaluation of Polypropylene Process Stability, J. E. Goodrich, *July, p. 215*

59. Molecular Weight Distribution

Studies on the Stress Relaxation of Polystyrenes in the Rubbery-Flow Region, M. Narkis, I. L. Hopkins, and A. V. Tobolsky, *March, p. 66*
The Rheology of Polypropylene—The Influence of Molecular Weight Distribution on Melt Elasticity, G. Petraglia and A. Coen, *March, p. 79*

60. Molecular Weight Effect

Physical Properties of Block Copolymers of Polydimethyl Siloxane and Polycarbonate, T. L. Magila and D. G. Le Grand, *November, p. 349*

61. Morphology

Polybutylene Properties of a Packaging Material, C. R. Lindegren, *May, p. 163*

62. Mylar

Cause and Effect in the Weathering of Plastics, M. R. Kamal, *March, p. 108*

N

63. Nylon

Cause and Effect in the Weathering of Plastics, M. R. Kamal, *March, p. 108*
Physical Properties of Some Injection Molded Thermoplastics of Various Glass Contents, H. S. Loveless and D. E. McWilliams, *May, p. 139*

O

64. Optical Properties

Physical Properties of Block Copolymers of Polydimethyl Siloxane and Polycarbonate, T. L. Magila and D. G. Le Grand, *November, p. 349*

65. Oven-Aging Stability

A New Method for Determining Oven Aging Stability of Polypropylene Monofilament, A. DiBattista, *November, p. 332*

66. Oxidative Degradation

Cause and Effect in the Weathering of Plastics, M. R. Kamal, *March, p. 108*
SPE International Award Paper, A. V. Tobolsky, *November, p. 317*

P

67. Packaging

Polybutylene Properties of a Packaging Material, C. R. Lindegren, *May, p. 163*

68. Particle Size Distribution

Extrusion Blow Molding of Polyvinyl Chloride Homo- and Copolymers, W. Taylor and L. F. King, *July, p. 204*

69. Penetration

Isothermal Kinetic Studies Using a Thermomechanical Analyzer Part II. Rates of Penetration of a Polymer by a Spherical Indenter, D. Machin and C. E. Rogers, *September, p. 305*
Anomalous Transport of Hydrocarbons in Polystyrene, R. H. Holley, H. B. Hopfenberg, and V. Stannett, *November, p. 376*

70. Permeability

Measurement of Water Vapor Transmission Through Polyethylene Electrical Insulation, R. M. Eichhorn, *January, p. 32*

71. Phenolics

Processing of Boron Filament Wound Composites, P. W. Juneau, Jr., V. N. Saffire, D. P. Hug, and D. Golliday, *March, p. 86*

72. Photo-Oxidation

Oxidation of Ether Linked Thermoplastics, P. G. Kelleher and B. D. Gesner, *January, p. 38*

73. Physical Properties

Flow Behavior of Concentrated Solutions of an SBS Block Copolymer, D. R. Paul, J. E. St. Lawrence, and J. H. Troell, *March, p. 70*
The Rheology of Polypropylene—The Influence of Molecular Weight Distribution on Melt Elasticity, G. Petraglia and A. Coen, *March, p. 79*

Processing of Boron Filament Wound Composites, P. W. Juneau, Jr., V. N. Saffire, D. P. Hug, and D. Golliday, *March, p. 86*
Physical Properties of Some Injection Molded Thermoplastics of Various Glass Contents, H. S. Loveless and D. E. McWilliams, *May, p. 139*
Polybutylene Properties of a Packaging Material, C. R. Lindegren, *May, p. 163*
Extrusion Blow Molding of Polyvinyl Chloride Homo- and Copolymers, W. Taylor and L. F. King, *July, p. 204*
Physical Properties of Block Copolymers of Polydimethyl Siloxane and Polycarbonate, T. L. Magila and D. G. Le Grand, *November, p. 349*

74. Plasticizer

Rates of Molecular Vaporization of Organic Plasticizers, L. A. Wall, J. H. Flynn, and S. Straus, *January, p. 19*

75. Plasticization

Studies on the Stress Relaxation of Polystyrenes in the Rubbery-Flow Region, M. Narkis, I. L. Hopkins, and A. V. Tobolsky, *March, p. 66*

76. Plastics

Mechanism of Ultraviolet Degradation and Stabilization in Plastics, R. D. Deanin, S. A. Orroth, R. W. Eliasen, and T. N. Greer, *July, p. 228*

77. Polyacrylate

Structure-Property Relationships in Polyacrylate-Poly(Urethane-Urea) Interpenetrating Polymer Networks, M. Matsuo, T. K. Kwei, D. Klempner, and H. L. Frisch, *November, p. 327*

78. Polyblends

Quantitative Thermal Analysis of Polyblends, H. E. Bair, *July, p. 247*
Fine Structures and Fracture Processes in Plastic-Rubber Two-Phase Polymer Systems III. Temperature Dependence of Charpy Impact Strength M. Matsuo, A. Ueda, and Y. Kondo, *September, p. 253*
Fine Structures and Fracture Processes in Plastic-Rubber Two-Phase Polymer Systems IV. Temperature and Strain Rate Dependences of Tensile Properties, Y. Imasawa and M. Matsuo, *September, p. 261*
Dynamic Melt Properties of Polymer Blends, A. S. Hill and B. Maxwell, *September, p. 289*

79. Polybutylene

Polybutylene Properties of a Packaging Material, C. R. Lindegren, *May, p. 163*

80. Poly-n-butylmethacrylate

Isothermal Kinetic Studies Using a Thermomechanical Analyzer Part I. Rates of Polymer Swelling and Dissolution, D. Machin and C. E. Rogers, *September, p. 300*

81. Polycarbonate

Physical Properties of Block Copolymers of Polydimethyl Siloxane and Polycarbonate, T. L. Magila and D. G. Le Grand, *November, p. 349*

82. Polydimethyl Siloxane

Physical Properties of Block Copolymers of Polydimethyl Siloxane and Polycarbonate, T. L. Magila and D. G. Le Grand, *November, p. 349*

83. Polyesters

Sources of Variability in Laboratory Weathering, R. A. Kinmonth, R. Saxon, and R. M. King, *September, p. 309*

84. Polyethylene

Measurement of Water Vapor Transmission Through Polyethylene Electrical Insulation, R. M. Eichhorn, *January, p. 32*
Effect of Processing History on Melt Flow Defects, A. Rudin, *March, p. 94*
Cause and Effect in the Weathering of Plastics, M. R. Kamal, *March, p. 108*
Temperature Dependence of the Properties of Low-Density Polyethylene, D. W. Verser and B. Maxwell, *March, p. 122*
A Method for Determining the Melt Elasticity in Capillary Flow, C. D. Han and M. Charles, *May, p. 148*
Capillary Flow Instability of Ethylene Polymer Melts, L. L. Blyler, Jr., and A. C. Hart, Jr., *July, p. 193*
Processability of High-Density Polyethylene Bottles with Special Reference to Melt Flow Properties, S. Hirata and A. Kishimoto, *July, p. 235*
A Modified Melting Model for Plastifying Extruders, D. R. Hinrichs and L. U. Lilleleht, *September, p. 268*
Dynamic Melt Properties of Polymer Blends, A. S. Hill and B. Maxwell, *September, p. 289*
Isothermal Kinetic Studies Using a Thermomechanical Analyzer Part I. Rates of Polymer Swelling and Dissolution, D. Machin and C. E. Rogers, *September, p. 300*

85. Polyethylene Terephthalate

Cause and Effect in the Weathering of Plastics, M. R. Kamal, *March, p. 108*
Kinetics of Thermally Induced Solid State Polycondensation of Poly(Ethylene Terephthalate), T. M. Chang, *November, p. 364*

86. Polyisobutylene

Polymer Solubility Parameters Determined from Measurements in a Single Solvent, W. R. Song and D. W. Brownawell, *July, p. 222*

87. Polymer Melt

Capillary Flow Instability of Ethylene Polymer Melts, L. L. Blyler, Jr. and A. C. Hart, Jr., *July, p. 193*

88. Polymethylacrylate

Isothermal Kinetic Studies Using a Thermomechanical Analyzer Part I. Rates of Polymer Swelling and Dissolution, D. Machin and C. E. Rogers, *September, p. 300*

89. Polymethyl Methacrylate

Dynamic Melt Properties of Polymer Blends, A. S. Hill and B. Maxwell, *September, p. 289*

90. Polyoxymethylene

Oxidation of Ether Linked Thermoplastics, P. G. Kelleher and B. D. Gesner, *January, p. 38*

91. Polypeptides, Synthetic

SPE International Award Paper, A. V. Tobolsky, *November, p. 317*

92. Polyphenylene Oxide

Oxidation of Ether Linked Thermoplastics, P. G. Kelleher and B. D. Gesner, *January, p. 38*

93. Polyphenylene Oxide/Polystyrene

Oxidation of Ether Linked Thermoplastics, P. G. Kelleher and B. D. Gesner, *January, p. 38*
Quantitative Thermal Analysis of Polyblends, H. E. Bair, *July, p. 247*

94. Polypropylene

The Rheology of Polypropylene—The Influence of Molecular Weight Distribution on Melt Elasticity, G. Petraglia and A. Coen, *March, p. 79*
Cause and Effect in the Weathering of Plastics, M. R. Kamal, *March, p. 108*
Physical Properties of Some Injection Molded Thermoplastics of Various Glass Contents, H. S. Loveless and D. E. McWilliams, *May, p. 139*
A Method for Determining the Melt Elasticity in Capillary Flow, C. D. Han and M. Charles, *May, p. 148*
Torque Rheometer Evaluation of Polypropylene Process Stability, J. E. Goodrich, *July, p. 215*
A Modified Melting Model for Plastifying Extruders, D. R. Hinrichs and L. U. Lilleleht, *September, p. 268*
A New Method for Determining Oven Aging Stability of Polypropylene Monofilament, A. DiBattista, *November, p. 332*

95. Polypropylene Oxide

Viscosity of Polypropylene Oxide Solutions over the Entire Concentration Range, P. F. Lyons and A. V. Tobolsky, *January, p. 1*

96. Polystyrene

Studies on the Stress Relaxation of Polystyrenes in the Rubbery-Flow Region, M. Narkis, I. L. Hopkins, and A. V. Tobolsky, *March, p. 66*
Dynamic Mechanical Properties of Poly (2, 6-Dimethyl-1, 4 Phenylene Ether)-Polystyrene Blends, J. Stoelting, F. E. Karasz, and W. J. MacKnight, *May, p. 133*
Surface Fracture in Injection Molding of Filled Polymers, R. L. Ballman, R. L. Kruse, and W. P. Taggart, *May, p. 154*
Quantitative Thermal Analysis of Polyblends, H. E. Bair, *July, p. 247*
Fine Structures and Fracture Processes in Plastic-Rubber Two-Phase Polymer Systems IV. Temperature and Strain Rate Dependences of Tensile Properties, Y. Imasawa and M. Matsuo, *September, p. 261*
A Modified Melting Model for Plastifying Extruders, D. R. Hinrichs and L. U. Lilleleht, *September, p. 268*

XUM

Dynamic Melt Properties of Polymer Blends, A. S. Hill and B. Maxwell, *September, p. 289*
Isothermal Kinetic Studies Using a Thermomechanical Analyzer Part I. Rates of Polymer Swelling and Dissolution, D. Machin and C. E. Rogers, *September, p. 300*
Anomalous Transport of Hydrocarbons in Polystyrene, R. H. Holley, H. B. Hopfenberg, and V. Stannett, *November, p. 376*

97. Polyurethane

Elastic Properties of Model Two-Phase Continuous Composites, P. L. White and L. H. Van Vlack, *September, p. 293*
Thermomechanical Studies of Polymer Deformation II. A Thermodynamic Analysis of a Viscoelastic Material in Sinusoidal Deformation, I. J. Duvdevani, J. A. Biesenberger, and C. G. Gogos, *November, p. 320*

98. Poly(urethane-urea)

Structure-Property Relationships in Polyacrylate-Poly(Urethane-Urea) Interpenetrating Polymer Networks, M. Matsuo, T. K. Kwei, D. Klempner, and H. L. Frisch, *November, p. 327*

99. Polyvinyl Acetate

Isothermal Kinetic Studies Using a Thermomechanical Analyzer Part I. Rates of Polymer Swelling and Dissolution, D. Machin and C. E. Rogers, *September, p. 300*

100. Polyvinyl Chloride

Rheological and Thermodynamic Interaction Effects in Plasticized Polyvinyl Chloride Compounds, H. P. Schreiber, *January, p. 13*
Polyvinylchloride Melt Rheology II—The Influence of Molecular Weight on Flow Activation Energy, E. A. Collins and A. P. Metzger, *March, p. 57*
Effect of Processing History on Melt Flow Defects, A. Rudin, *March, p. 94*
Cause and Effect in the Weathering of Plastics, M. R. Kamal, *March, p. 108*
Extrusion Blow Molding of Polyvinyl Chloride Homo- and Copolymers, W. Taylor and L. F. King, *July, p. 204*
Evaluation of Biocides for Treatment of Polyvinyl Chloride Film, A. M. Kaplan, M. Greenberger, and T. M. Wendt, *July, p. 241*
Fine Structures and Fracture Processes in Plastic-Rubber Two-Phase Polymer Systems III. Temperature Dependence of Charpy Impact Strength, M. Matsuo, A. Ueda, and Y. Kondo, *September, p. 253*
Fine Structures and Fracture Processes in Plastic-Rubber Two-Phase Polymer Systems IV. Temperature and Strain Rate Dependences of Tensile Properties, Y. Imasawa and M. Matsuo, *September, p. 261*
A Modified Melting Model for Plastifying Extruders, D. R. Hinrichs and L. U. Lilleleht, *September, p. 268*

101. Pressure Distribution

Compression, Bending, and Shear of Bonded Rubber Blocks, A. N. Gent and E. A. Meinecke, *January, p. 48*

102. Pressure Drop

Entrance Flows of Polymeric Materials: Pressure Drop and Flow Patterns, R. L. Boles, H. L. Davis, and D. C. Bogue, *January, p. 24*

103. Pressure Effect

Inflation and Compression of Rubber Tubes Between Parallel Plates, J. M. Charrier and A. N. Gent, *November, p. 358*

104. Processing

Effect of Processing History on Melt Flow Defects, A. Rudin, *March, p. 94*
Torque Rheometer Evaluation of Polypropylene Process Stability, J. E. Goodrich, *July, p. 215*
Processability of High-Density Polyethylene Bottles with Special Reference to Melt Flow Properties, S. Hirata and A. Kishimoto, *July, p. 235*

105. Pyrrones

High Temperature Molding of Pyrrones C. L. Johnson, E. B. Bagley, and T. L. Tolbert, *November, p. 340*

R

106. Radiotracer Measurements

Radiotracer Measurements of Sulphur Diffusion in Rubber, M. Mozisek, *November, p. 383*

107. Reinforced Plastics

On the Strength and Stiffness of Planar Reinforced Plastic Resins, G. E. Padawer and N. Beecher, *May, p. 185*

108. Rheology

Rheological and Thermodynamic Interaction Effects in Plasticized Polyvinyl Chloride Compounds, H. P. Schreiber, *January, p. 13*
Polyvinylchloride Melt Rheology II—The Influence of Molecular Weight on Flow Activation Energy, E. A. Collins, and A. P. Metzger, *March, p. 57*
The Rheology of Polypropylene—The Influence of Molecular Weight Distribution on Melt Elasticity, G. Petraglia and A. Coen, *March, p. 79*
Surface Fracture in Injection Molding of Filled Polymers, R. L. Ballman, R. L. Kruse, and W. P. Taggart, *May, p. 154*
Capillary Flow Instability of Ethylene Polymer Melts, L. L. Blyler, Jr. and A. C. Hart, Jr., *July, p. 193*

109. Rheometer

Torque Rheometer Evaluation of Polypropylene Process Stability, J. E. Goodrich, *July, p. 215*

110. Rubber

Compression, Bending, and Shear of Bonded Rubber Blocks, A. N. Gent and E. A. Meinecke, *January, p. 48*
Gel Sensitivity of Polybutadiene-Based Rubber Subjected to Thermal Abuse, D. E. James, *May, p. 159*
Fine Structures and Fracture Processes in Plastic-Rubber Two-Phase Polymer Systems III. Temperature Dependence of Charpy Impact Strength, M. Matsuo, A. Ueda, and Y. Kondo, *September, p. 253*
Fine Structures and Fracture Processes in Plastic-Rubber Two-Phase Polymer Systems IV. Temperature and Strain Rate Dependences of Tensile Properties, Y. Imasawa and M. Matsuo, *September, p. 261*
Inflation and Compression of Rubber Tubes Between Parallel Plates, J. M. Charrier and A. N. Gent, *November, p. 358*
Radiotracer Measurements of Sulphur Diffusion in Rubber, M. Mozisek, *November, p. 383*
SPE International Award Paper, A. V. Tobolsky, *November, p. 317*

S

111. Secant Modulus

Time-Dependent Properties of Versamid Cured Epoxies, A. E. Moehlenpah, A. T. Di Benedetto, and O. Ishai, *May, p. 170*

112. Shear

Entrance Flows of Polymeric Materials: Pressure Drop and Flow Patterns, R. L. Boles, H. L. Davis, and D. C. Bogue, *January, p. 24*
Stress Analysis of Ribbon Reinforced Composites, P. E. Chen and T. B. Lewis, *January, p. 43*
Compression, Bending, and Shear of Bonded Rubber Blocks, A. N. Gent and E. A. Meinecke, *January, p. 48*
Polyvinylchloride Melt Rheology II—The Influence of Molecular Weight on Flow Activation Energy, E. A. Collins and A. P. Metzger, *March, p. 57*
Flow Behavior of Concentrated Solutions of an SBS Block Copolymer, D. R. Paul, J. E. St. Lawrence, and J. H. Troell, *March, p. 70*
Effect of Processing History on Melt Flow Defects, A. Rudin, *March, p. 94*
Relationship Between Thermoelasticity and Reinforcement in Elastomers: Silica Filled Silicone Elastomers, A. V. Galanti and L. H. Sperling, *May, p. 177*
Capillary Flow Instability of Ethylene Polymer Melts, L. L. Blyler, Jr. and A. C. Hart, Jr., *July, p. 193*

113. Shift Factor

Flow Behavior of Concentrated Solutions of an SBS Block Copolymer, D. R. Paul, J. E. St. Lawrence, and J. H. Troell, *March, p. 70*
Time-Dependent Properties of Versamid Cured Epoxies, A. E. Moehlenpah, A. T. Di Benedetto, and O. Ishai, *May, p. 170*

114. Simulation Model

Numerical Simulation of Injection Mold Filling, D. H. Harry and R. G. Parrott, *July, p. 209*

XUM

115. Solid State Polymerization

Kinetics of Thermally Induced Solid State Polycondensation of Poly(Ethylene Terephthalate), T. N. Chang, *November, p. 364*

116. Solubility Parameters

Polymer Solubility Parameters Determined from Measurements in a Single Solvent, W. R. Song and D. W. Brownawell, *July, p. 222*

117. Solvent Effect

Flow Behavior of Concentrated Solutions of a SBS Block Copolymer, D. R. Paul, J. E. St. Lawrence, and J. H. Troell, *March, p. 70*

Polymer Solubility Parameters Determined from Measurements in a Single Solvent, W. R. Song and D. W. Brownawell, *July, p. 222*

118. Solvent Systems

Viscosity of Polypropylene Oxide Solutions over the Entire Concentration Range, P. F. Lyons and A. V. Tobolsky, *January, p. 1*

119. Solvent Transfer

Post Extrusion Heat and Solvent Transfer from Polymeric Film, N. C. Shih and S. Middleman, *January, p. 4*

120. Strength

On the Strength and Stiffness of Planar Reinforced Plastic Resins, G. E. Padawer and N. Beecher, *May, p. 185*

121. Stress Relaxation

Studies on the Stress Relaxation of Polystyrenes in the Rubbery-Flow Region, M. Narkis, I. L. Hopkins, and A. V. Tobolsky, *March, p. 66*

Time-Dependent Properties of Versamid Cured Epoxies, A. E. Moehlenpah, A. T. Di Benedetto, and O. Ishai, *May, p. 170*

Thermal Stability of Networks Containing Siloxane Linkages, M. T. Shaw and A. V. Tobolsky, *July, p. 225*

SPE International Award Paper, A. V. Tobolsky, *November, p. 317*

122. Stress-Strain

Stress Analysis of Ribbon Reinforced Composites, P. E. Chen and T. B. Lewis, *January, p. 43*

Compression, Bending, and Shear of Bonded Rubber Blocks, A. N. Gent and E. A. Meinecke, *January, p. 48*

A Method for Determining the Melt Elasticity in Capillary Flow, C. D. Han and M. Charles, *May, p. 148*

Fine Structures and Fracture Processes in Plastic-Rubber Two-Phase Polymer Systems IV. Temperature and Strain Rate Dependences of Tensile Properties, Y. Imasawa and M. Matsuo, *September, p. 261*

Mixing and Residence Time Distribution in Melt Screw Extruders, G. Pinto and Z. Tadmor, *September, p. 279*

Physical Properties of Block Copolymers of Polydimethyl Siloxane and Polycarbonate, T. L. Magila, and D. G. Le Grand, *November, p. 349*

123. Structure

Capillary Flow Instability of Ethylene Polymer Melts, L. L. Blyler, Jr. and A. C. Hart, Jr., *July, p. 193*

SPE International Award Paper, A. V. Tobolsky, *November, p. 317*

Structure-Property Relationships in Polyacrylate-Poly(Urethane-Urea) Interpenetrating Polymer Networks, M. Matsuo, T. K. Kwei, D. Klempner, and H. L. Frisch, *November, p. 327*

124. Styrene/Acrylonitrile

Physical Properties of Some Injection Molded Thermoplastics of Various Glass Contents, H. S. Loveless and D. E. McWilliams, *May, p. 139*

125. Styrene/Butadiene/Styrene

Flow Behavior of Concentrated Solutions of an SBS Block Copolymer, D. R. Paul, J. E. St. Lawrence, and J. H. Troell, *March, p. 70*

126. Sulphur

Radiotracer Measurements of Sulphur Diffusion in Rubber, M. Mozisek, *November, p. 383*

127. Surface Fracture

Surface Fracture in Injection Molding of Filled Polymers, R. L. Ballman, R. L. Kruse, and W. P. Taggart, *May, p. 154*

128. Swelling

Isothermal Kinetic Studies Using a Thermomechanical Analyzer Part I. Rates of Polymer Swelling and Dissolution, D. Machin and C. E. Rogers, *September, p. 300*

T

129. Tangent Modulus

Time-Dependent Properties of Versamid Cured Epoxies, A. E. Moehlenpah, A. T. Di Benedetto, and O. Ishai, *May, p. 170*

130. Temperature Dependence

Rheological and Thermodynamic Interaction Effects in Plasticized Polyvinyl Chloride Compounds, H. P. Schreiber, *January, p. 13*

Measurement of Water Vapor Transmission Through Polyethylene Electrical Insulation, R. M. Eichhorn, *January, p. 32*

Polyvinylchloride Melt Rheology II—The Influence of Molecular Weight on Flow Activation Energy, E. A. Collins and A. P. Metzger, *March, p. 57*

Processing of Boron Filament Wound Composites, P. W. Juneau, Jr., V. N. Saffire, D. P. Hug, and D. Golliday, *March, p. 86*

Cause and Effect in the Weathering of Plastics, M. R. Kamal, *March, p. 108*

Temperature Dependence of the Properties of Low-Density Polyethylene, D. W. Verser and B. Maxwell, *March, p. 122*

Dynamic Mechanical Properties of Poly (2, 6-Dimethyl-1, 4 Phenylene Ether)-Polystyrene Blends, J. Stoelting, F. E. Karasz, and W. J. Mac Knight, *May, p. 133*

Numerical Simulation of Injection Mold Filling, D. H. Harry and R. G. Parrott, *July, p. 209*

Polymer Solubility Parameters Determined from Measurements in a Single Solvent, W. R. Song anl D. W. Brownawell, *July, p. 222*

Fine Structures and Fracture Processes in Plastic-Rubber Two-Phase Polymer Systems III. Temperature Dependence of Charpy Impact Strength, M. Matsuo, A. Ueda, and Y. Kondo, *September, p. 253*

Fine Structures and Fracture Processes in Plastic-Rubber Two-Phase Polymer Systems IV. Temperature and Strain Rate Dependences of Tensile Properties, Y. Imasawa and M. Matsuo, *September, p. 261*

Kinetics of Thermally Induced Solid State Polycondensation Poly (Ethylene Terephthalate), T. M. Chang, *November, p. 364*

The Viscoelastic Behavior of Boron Fiber-Epoxy Resin Composites, M. Schrager and J. Carey, *November, p. 369*

High Temperature Molding of Pyrrones, C. L. Johnson, E. B. Bagley, and T. L. Tolbert, *November, p. 340*

Anomalous Transport of Hydrocarbons in Polystyrene, R. H. Holley, H. B. Hopfenberg, and V. Stannett, *November, p. 376*

Radiotracer Measurements of Sulphur Diffusion in Rubber, M. Mozisek, *November, p. 383*

131. Tensile Failure

Description of Tensile Failure of Viscoelastic Materials Under Multiaxial Loading, R. G. Dong, *March, p. 102*

132. Tensile Properties

Effect of Processing History on Melt Flow Defects, A. Rudin, *March, p. 94*

Physical Properties of Some Injection Molded Thermoplastics of Various Glass Contents, H. S. Loveless and D. E. McWilliams, *May, p. 139*

Relationship Between Thermoelasticity and Reinforcement in Elastomers: Silica Filled Silicone Elastomers, A. V. Galanti and L. H. Sperling, *May, p. 177*

Fine Structures and Fracture Processes in Plastic-Rubber Two-Phase Polymer Systems IV. Temperature and Strain Rate Dependences of Tensile Properties, Y. Imasawa and M. Matsuo, *September, p. 261*

Isothermal Kinetics Studies Using a Thermomechanical Analyzer Part II. Rates of Penetration of a Polymer by a Spherical Indenter, D. Machin and C. E. Rogers, *September, p. 305*

Structure-Property Relationships in Polyacrylate-Poly (Urethane-Urea) Interpenetrating Polymer Networks, M. Matsuo, T. K. Kwei, D. Klempner, and H. L. Frisch, *November, p. 327*

133. Thermal Analysis

Quantitative Thermal Analysis of Polyblends, H. E. Bair, *July, p. 247*

Thermomechanical Studies of Polymer Deformation II. A Thermodynamic An-

XUM

alysis of a Viscoelastic Material in Sinusoidal Deformation, I. J. Duvdevani, J. A. Biesenberger, and C. G. Gogos. *November, p. 320*

134. Thermal Oxidation

Oxidation of Ether Linked Thermoplastics, P. G. Kelleher and B. D. Gesner, *January, p. 38*

135. Thermal Stability

Thermal Stability of Networks Containing Siloxane Linkages, M. T. Shaw and A. V. Tobolsky, *July, p. 225*
A New Method for Determining Oven Aging Stability of Polypropylene Monofilament, A. DiBattista, *November, p. 332*

136. Thermodynamics

Rheological and Thermodynamic Interaction Effects in Plasticized Polyvinyl Chloride Compounds, H. P. Schreiber, *January, p. 13*
Thermomechanical Studies of Polymer Deformation II. A Thermodynamic Analysis of a Viscoelastic Material in Sinusoidal Deformation, I. J. Duvdevani, J. A. Biesenberger, and C. G. Gogos, *November, p. 320*

137. Thermoelasticity

Relationship Between Thermoelasticity and Reinforcement in Elastomers: Silica Filled Silicone Elastomers, A. V. Galanti and L. H. Sperling, *May, p. 177*

138. Thermomechanical Analysis

Isothermal Kinetic Studies Using a Thermomechanical Analyzer Part I. Rates of Polymer Swelling and Dissolution, D. Machin and C. E. Rogers, *September, p. 300*
Isothermal Kinetic Studies Using a Thermomechanical Analyzer Part II. Rates of Penetration of a Polymer by a Spherical Indenter, D. Machin and C. E. Rogers, *September, p. 305*

139. Thermoplastics

Oxidation of Ether Linked Thermoplastics, P. G. Kelleher and B. D. Gesner, *January, p. 38*
Physical Properties of Some Injection Molded Thermoplastics of Various Glass Contents, H. S. Loveless and D. E. McWilliams, *May, p. 139*

140. Time Dependence

Time-Dependent Properties of Versamid Cured Epoxies, A. E. Moehlenpah, A. T. Di Benedetto, and O. Ishai, *May, p. 170*

141. Time Distribution

Mixing and Residence Time Distribution in Melt Screw Extruders, G. Pinto and Z. Tadmor, *September, p. 279*

U

142. Ultraviolet Degradation, Theory

Mechanism of Ultraviolet Degradation and Stabilization in Plastics, R. D. Deanin, S. A. Orroth, R. W. Eliasen, and T. N. Greer, *July, p. 228*

143. Ultraviolet Stabilization, Theory

Mechanism of Ultraviolet Degradation and Stabilization in Plastics, R. D. Deanin, S. A. Orroth, R. W. Eliasen, and T. N. Greer, *July, p. 228*

V

144. Vaporization

Rates of Molecular Vaporization of Organic Plasticizers, L. A. Wall, J. H. Flynn, and S. Straus, *January, p. 19*

145. Viscoelasticity

Description of Tensile Failure of Viscoelastic Materials Under Multiaxial Loading, R. G. Dong, *March, p. 102*
The Viscoelastic Behavior of Boron Fiber-Epoxy Resin Composites, M. Schrager and J. Carey, *November, p. 369*
SPE International Award Paper, A. V. Tobolsky, *November, p. 317*
Thermomechanical Studies of Polymer Deformation II. A Thermodynamic Analysis of a Viscoelastic Material in Sinusoidal Deformation, I. J. Duvdevani, J. A. Biesenberger, and C. G. Gogos, *November, p. 320*
Structure-Property Relationships in Polyacrylate-Poly(Urethane-Urea) Interpenetrating Polymer Networks, M. Matsuo, T. K. Kwei, D. Klempner, and H. L. Frisch, *November, p. 327*

146. Viscometer

Flow Behavior of Concentrated Solutions of an SBS Block Copolymer, D. R. Paul, J. E. St. Lawrence, and J. H. Troell, *March, p. 70*

147. Viscosity

Viscosity of Polypropylene Oxide Solutions over the Entire Concentration Range, P. F. Lyons and A. V. Tobolsky, *January, p. 1*
Polyvinylchloride Melt Rheology II—The Influence of Molecular Weight on Flow Activation Energy, E. A. Collins and A. P. Metzger, *March, p. 57*
Flow Behavior of Concentrated Solutions of an SBS Block Copolymer, D. R. Paul, J. E. St. Lawrence, and J. H. Troell, *March, p. 70*
Torque Rheometer Evaluation of Polypropylene Process Stability, J. E. Goodrich, *July, p. 215*
Polymer Solubility Parameters Determined from Measurements in a Single Solvent, W. R. Song and D. W. Brownawell, *July, p. 222*
Dynamic Melt Properties of Polymer Blends, A. S. Hill and B. Maxwell, *September, p. 289*
Kinetics of Thermally Induced Solid State Polycondensation of Poly(Ethylene Terephthalate), T. M. Chang, *November, p. 364*

W

148. Water Loss

Evaluation of Biocides for Treatment of Polyvinyl Chloride Film, A. M. Kaplan, M. Greenberger, and T. M. Wendt, *July, p. 241*

149. Water Vapor Transmission

Measurement of Water Vapor Transmission Through Polyethylene Electrical Insulation, R. M. Eichhorn, *January, p. 32*

150. Weathering

Cause and Effect in the Weathering of Plastics, M. R. Kamal, *March, p. 108*
Evaluation of Biocides for Treatment of Polyvinyl Chloride Film, A. M. Kaplan, M. Greenberger, and T. M. Wendt, *July, p. 241*
Sources of Variability in Laboratory Weathering, R. A. Kinmonth, R. Saxon, and R. M. King, *September, p. 309*

AUTHORS' INDEX

Numbers refer to category headings under "Subject and Title Index;" i.e., 66 see "Oxidation Degradation"

B

Bagley, E. B. 17, 38, 45, 105, 130
Bair H. E. 1, 78, 93, 96, 133
Ballman, R. L. 1, 48, 96, 108, 127
Beecher, N. 25, 35, 36, 37, 53, 107, 120
Biesenberger, J. A. 10, 20, 35, 97, 133, 136, 145
Blyler, L. L., Jr. 11, 49, 58, 84, 87, 108, 112, 123
Bogue, D. C. 38, 39, 102, 112
Boles, R. L. 38, 39, 102, 112
Brownawell, D. W. 29, 86, 116, 117, 130, 147

C

Carey, J. 8, 14, 28, 130, 145
Chang, T. M. 18, 22, 50, 85, 115, 130, 147
Charles, M. 11, 54, 84, 94, 122
Charrier, J. M. 20, 103, 110

Chen, P. E. 14, 112, 122
Coen, A. 54, 59, 73, 94, 108
Collins, E. A. 3, 55, 58, 100, 108, 112, 130, 147

D

Davis, H. L. 38, 39, 102, 112
Deanin, R. D. 76, 142, 143
DiBattista, A. 32, 65, 94, 135
DiBenedetto, A. T. 24, 28, 111, 113, 121, 129, 140
Dong, R. G. 131, 145
Duvdevani, I. J. 10, 20, 35, 97, 133, 136, 145

E

Eichhorn, R. M. 70, 84, 130, 149
Eliasen, R. W. 76, 142, 143

F

Flynn, J. H. 50, 74, 144
Frisch, H. L. 27, 77, 98, 123, 132, 145

G

Galanti, A. V. 26, 34, 112, 132, 137
Gent, A. N. 15, 20, 101, 103, 110, 112, 122
Gesner, B. D. 2, 13, 43, 51, 72, 90, 92, 93, 134, 139
Gogos, C. G. 10, 20, 35, 97 133, 136, 145
Golliday, D. 8, 14, 28, 33, 71, 73, 130
Goodrich, J. E. 58, 94, 104, 109, 147
Greenberger, M. 4, 5, 35, 100, 148, 150
Greer, T. N. 76, 142, 143

H

Han, C. D. 11, 54, 84, 94, 122
Harry, D. H. 38, 42, 44, 48, 114, 130
Hart, A. C., Jr. 11, 49, 58, 84, 87, 108, 112, 123
Hill, A. S. 53, 56, 78, 84, 89, 96, 147
Hinrichs, D. R. 30, 31, 55, 84, 94, 96, 100
Hirata, S. 9, 55, 84, 104
Holley, R. H. 46, 50, 69, 96, 130
Hopfenberg, H. B. 46, 50, 69, 96, 130
Hopkins, I. L. 59, 75, 96, 121
Hug, D. P. 8, 14, 28, 33, 71, 73, 130

I

Imasawa, Y. 1, 78, 96, 100, 110, 122, 130, 132
Ishai, O. 24, 28, 111, 113, 121, 129, 140

J

James, D. E. 40, 49, 110
Johnson, C. L. 17, 38, 45, 105, 130
Juneau, P. W., Jr. 8, 14, 28, 33, 71, 73, 130

K

Kamal, M. R. 21, 62, 63, 66, 84, 85, 94, 100, 130, 150
Kaplan, A. M. 4, 5, 35, 100, 148, 150
Karasz, F. E. 53, 96, 130
Kelleher, P. G. 2, 13, 43, 51, 72, 90, 92, 93, 134, 139
King, L. F. 7, 9, 31, 68, 73, 100
King, R. M. 12, 21, 83, 150
Kinmonth, R. A. 12, 21, 83, 150
Kishimoto, A. 9, 55, 84, 104
Klempner, D. 27, 77, 98, 123, 132, 145
Kondo, Y. 1, 47, 78, 100, 110, 130
Kruse, R. L. 1, 48, 96, 108, 127
Kwei, T. K. 27, 77, 98, 123, 132, 145

L

Le Grand, D. G. 6, 20, 53, 60, 64, 73, 81, 82, 122
Lewis, T. B. 14, 112, 122
Lilleleht, L. U. 30, 31, 55, 84, 94, 96, 100
Lindegren, C. R. 18, 53, 61, 67, 73, 79
Loveless, H. S. 2, 19, 37, 41, 47, 53, 63, 73, 94, 124, 132, 139
Lyons, P. F. 16, 95, 118, 147

M

Machin, D. 23, 50, 69, 80, 84, 88, 96, 99, 128, 132, 138
Mac Knight, W. J. 53, 96, 130
Magila, T. L. 6, 20, 53, 60, 64, 73, 81, 82, 122
Matsuo, M. 1, 27, 47, 77, 78, 96, 98, 100, 110, 122, 123, 130, 132, 145
Maxwell, B. 53, 56, 78, 84, 89, 96, 130, 147
Mc Williams, D. E. 2, 19, 37, 41, 47, 53, 63, 73, 94, 124, 132, 139
Meinecke, E. A. 15, 20, 101, 110, 112, 122
Metzger, A. P. 3, 55, 58, 100, 108, 112, 130, 147
Middleman, S. 16, 35, 44, 119
Moehlenpah, A. E. 24, 28, 111, 113, 121, 129, 140
Mozisek, M. 3, 22, 106, 110, 126, 130

N

Narkis, M. 59, 75, 96, 121

O

Orroth, S. A. 76, 142, 143

P

Padawer, G. E. 25, 35, 36, 37, 53, 107, 120
Parrott, R. G. 38, 42, 44, 48, 114, 130
Paul, D. R. 6, 38, 73, 112, 113, 117, 125, 146, 147
Petraglia, G. 54, 59, 73, 94, 108
Pinto, G. 30, 122, 141

R

Rogers, C. E. 23, 50, 69, 80, 84, 88, 96, 99, 128, 132, 138
Rudin, A. 55, 84, 100, 104, 112, 132

S

Saffire, V. N. 8, 14, 28, 33, 71, 73, 130
Saxon, R. 12, 21, 83, 150
Schrager, M. 8, 14, 28, 130, 145
Schreiber, H. P. 100, 108, 130, 136
Shaw, M. T. 26, 121, 135
Shih, N. C. 16, 35, 44, 119
Song, W. R. 29, 86, 116, 117, 130, 147
Sperling, L. H. 26, 34, 112, 132, 137
Stannett, V. 46, 50, 69, 96, 130
St. Lawrence, J. E. 6, 38, 73, 112, 113, 117, 125, 146, 147
Stoelting, J. 53, 96, 130
Straus, S. 50, 74, 144

T

Tadmor, Z. 30, 122, 141
Taggart, W. P. 1, 48, 96, 108, 127
Taylor, W. 7, 9, 31, 68, 73, 100
Tobolsky, A. V. 16, 26, 50, 59, 66, 75, 91, 95, 96, 110, 118, 121, 123, 135, 145, 147
Tolbert, T. L. 17, 38, 45, 105, 130
Troell, J. H. 6, 38, 73, 112, 113, 117, 125, 146, 147

U

Ueda, A. 1, 47, 78, 100, 110, 130
Uglione, H. L., Jr. 51

V

Van Vlack, L. H. 14, 25, 57, 97
Verser, D. W. 53, 84, 130

W

Wall, L. A. 50, 74, 144
Wendt, T. M. 4, 5, 35, 100, 148, 150
White, P. L. 14, 25, 57, 97

XUM

XUM